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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/582,959	06/15/2006	Hiitoshi Takamatsu	740165-428	1480

25570 7590 09/03/2009  
ROBERT'S MLOTKOWSKI SAFRAN & COLE, P.C.  
Intellectual Property Department  
P.O. Box 10064  
MCLEAN, VA 22102-8064

EXAMINER
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KRUEER, STEFAN

ART UNIT	PAPER NUMBER
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3654

NOTIFICATION DATE	DELIVERY MODE
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09/03/2009

ELECTRONIC

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

lgallaugh@rmsclaw.com  
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### Office Action Summary

**Application No.**

10/582,959

**Applicant(s)**

TAKAMATSU ET AL.

**Examiner**

Stefan Krueer

**Art Unit**

3654

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 4 August 2009.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1 - 5 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1 - 5 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 15 June 2006 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☒ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/CDC)
- Paper No(s)/Mail Date \_\_\_\_\_

- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: \_\_\_\_\_

## **DETAILED ACTION**

### ***Request for Continued Examination***

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 4 August 2009 has been entered.

### ***Claim Rejections - 35 USC § 112***

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

**Claims 1 - 4** are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

**Claims 1 and 3**, Lines 16 and 20, respectively, commonly recite "...wherein the sleeve of the pretensioner mechanism is integrally connected at an axial center portion of the lock gear..." whereby the sleeve, as understood, is formed integrally with said lock gear, extends axially from said lock gear and is concentric with said lock gear; However, said sleeve is not connected with said lock gear at an axial center portion of said lock gear in that, though having a smaller outer diameter than said lock gear, is significantly larger in diameter than an axial center portion of said lock gear.

***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

**Claims 1 – 2 and 5** are rejected under 35 U.S.C. 102(b) as being anticipated by Ebner et al (5,788,176).

**Re: Claims 1 – 2 and 5**, Ebner et al disclose a webbing retractor (Fig.'s 1 – 1A) comprising:

- a retracting shaft (12) for retracting a webbing belt (14) for restraining an occupant;
- a lock mechanism (16, 32, 40, 42, 44 & 48) which includes an annular lock gear (32) concentrically provided with respect to an axis of rotation of said retracting shaft with ratchet teeth (depicted, not numbered) being formed at an outer peripheral face of the lock gear and a lock plate (16) disposed to be able to be engaged with the ratchet teeth of the lock gear (via teeth of 12, Fig.'s 5 – 6, Col. 5, L. 62 – Col. 6, L. 8), and which is structured to be able to prevent rotation of the retracting shaft in a webbing pulling-out direction by the lock plate being engaged with the lock gear;
- a pretensioner mechanism (18 – 20, 22, 24, 26 & 28) coupled to an end portion of the shaft, and which is structured to be able to forcibly rotate the retracting shaft in a webbing retracting direction;
- a force limiter mechanism (30) which includes a torsion bar having one end portion (50) coupled to the retracting shaft (at 52), and which is structured to be able to absorb a rotating force of the retracting shaft in the webbing pulling-out direction when the rotation of the retracting shaft in the webbing pulling-out direction is prevented by the lock mechanism; and

- said pretensioner mechanism which includes a sleeve (axial extension of 32) coupled to the other end portion of the torsion bar, and which is structured to be able to forcibly rotate the retracting shaft in a webbing retracting direction via the sleeve,
- wherein the sleeve of the pretensioner mechanism is integrally connected at an axial center portion of the lock gear of the lock mechanism such that the sleeve and the lock gear form a single, one piece member.
- wherein the sleeve is formed in a cylindrical shape coaxial with the lock gear, and an inner peripheral face of the sleeve is knurled (to accept knurled end portion of torsion bar).

**Claims 3 – 4** are rejected under 35 U.S.C. 103(a) as being unpatentable over Ebner et al in view of Nagata et al (6,354,528).

Ebner et al disclose a retracting shaft, pretensioner- and locking mechanisms, a force limiter including a torsion bar, a sleeve of their pretensioner having an inner periphery comprising a knurled surface, wherein said sleeve is integrally connected at an axial center portion of the lock gear of the lock mechanism such that the sleeve and the lock gear form a single, one piece member, and a clutch plate (22) that transmits a rotating force of a wheel of said pretensioner to said sleeve; however,

Ebner et al are silent with respect to their pretensioner mechanism having a rack.

Nagata et al teach their pretensioner mechanism having rack (130, Fig. 14) which is provided on their piston (146, 132) that moves within their cylinder (136) by receiving gas pressure, as well as a pinion (104) which is disposed coaxially with their retracting shaft, a force limiter including a torsion bar and an inner peripheral face of their sleeve is knurled, in total comprising a pretensioning device as known in the art.

It would have been obvious to one of ordinary skill in the art to modify the invention of Ebner et al with the teaching of Nagata et al to utilize a pretensioner mechanism having a rack as known in the art.

### ***Response to Arguments***

Applicant's arguments filed 4 August 2009 with respect to **Claims 1, 3 and 5** have been fully considered but they are moot in view of new grounds of rejections.

The rejections of the previous office action were in response to the claim language.

Applicant's arguments are primarily based on the commonly amended claim language applied to the prior art of record.

### ***Conclusion***

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Rees et al (6,460,935) are cited to a webbing retractor having pretensioner mechanism coaxial with locking mechanism, wherein the pretensioner mechanism (16, having pulley 10) is coaxial of their lock gear (14) with which it forms a compact arrangement through mounting on a common sleeve (17) and said arrangement is complemented by a spring clutch (19, 18) and rack (21).

Nagata et al (6,626,388) is cited for reference of a webbing retractor having a pretensioner mechanism coaxial with a locking mechanism concentrically mounted with respect to an axis of rotation of a retracting shaft and comprising an annular lock gear with ratchet teeth being formed on an outer peripheral face, said pretensioner mechanism further having a sleeve coaxial of said lock gear, coupled to an end of a torsion bar of a force limiter mechanism and integrally connected to said lock gear.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Stefan Kruer whose telephone number is 571.272.5913. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Q. Nguyen, can be reached on 571.272.6952. The fax phone number for the organization where this application or proceeding is assigned is 571.273.8300.

Art Unit: 3654

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866.217.9197 (toll-free).

/Stefan Kruer/  
Examiner, Art Unit 3654  
30 August 2009

/John Q. Nguyen/  
Supervisory Patent Examiner, Art Unit 3654